

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vijayabhaskar Annamalai Kalusivalingam</td> <td>12/02/2010</td> </tr> <tr> <td>Jaihari Loganathan</td> <td>12/02/2010</td> </tr> <tr> <td>Ravi Shekhar</td> <td>12/02/2010</td> </tr> <tr> <td>Jeelani Syed</td> <td>12/03/2010</td> </tr> <tr> <td>Quaizar Vohra</td> <td>12/02/2010</td> </tr> </tbody> </table>		Name	Execution Date	Vijayabhaskar Annamalai Kalusivalingam	12/02/2010	Jaihari Loganathan	12/02/2010	Ravi Shekhar	12/02/2010	Jeelani Syed	12/03/2010	Quaizar Vohra	12/02/2010
Name	Execution Date												
Vijayabhaskar Annamalai Kalusivalingam	12/02/2010												
Jaihari Loganathan	12/02/2010												
Ravi Shekhar	12/02/2010												
Jeelani Syed	12/03/2010												
Quaizar Vohra	12/02/2010												
<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Juniper Networks, Inc.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>1194 N. Mathilda Avenue</td> </tr> <tr> <td><b>City:</b></td> <td>Sunnyvale</td> </tr> <tr> <td><b>State/Country:</b></td> <td>CALIFORNIA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>94089</td> </tr> </table>		<b>Name:</b>	Juniper Networks, Inc.	<b>Street Address:</b>	1194 N. Mathilda Avenue	<b>City:</b>	Sunnyvale	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	94089		
<b>Name:</b>	Juniper Networks, Inc.												
<b>Street Address:</b>	1194 N. Mathilda Avenue												
<b>City:</b>	Sunnyvale												
<b>State/Country:</b>	CALIFORNIA												
<b>Postal Code:</b>	94089												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12969277</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12969277								
Property Type	Number												
Application Number:	12969277												
<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (703)842-7899</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (202) 842-7800</p> <p>Email: mharris@cooley.com</p> <p>Correspondent Name: Cooley LLP</p> <p>Address Line 1: 777 6th Street, N.W.</p> <p>Address Line 2: Suite 1100</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20001</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	JUNI-058/00US 108200-2096												
<b>NAME OF SUBMITTER:</b>	David W. Hopkins												

CH \$40.00 12969277

501380278

**PATENT**  
**REEL: 025507 FRAME: 0451**

Total Attachments: 3

source=058assignment#page1.tif

source=058assignment#page2.tif

source=058assignment#page3.tif

## ASSIGNMENT

**Vijayabhaskar Annamalai KALUSIVALINGAM**, residing at 350 Elan Village Lane, APT 417, San Jose, CA 95134; **Jaihari LOGANATHAN**, residing at 1646 Martin Avenue, Sunnyvale, CA 94087; **Ravi SHEKHAR**, residing at 1063 Morse Ave., Sunnyvale, CA 94089; **Jcelani SYED**, residing at TH A49, Purva Parkridge, Garuda Charpalya, Outer Ring Road, Near Marathahalli, Bangalore, 560048 India; and **Quaizar VOHRA**, residing at 2223 Gianera Street, Santa Clara, CA 95054 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **METHODS AND APPARATUS FOR FORWARDING-STATE TRANSPORT IN A DISTRIBUTED CONTROL PLANE**, and which is a:

- (1) ☐ provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☒ bearing Application No. 12/969,277 filed on December 15, 2010 and Attorney Docket JUNI-058/00US 108200-2096,

**WHEREAS, JUNIPER NETWORKS, INC.**, a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 1194 N. Mathilda Ave., Sunnyvale, CA 94089 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) - (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 12/2/2010

By: *A. K. Vijayabhaskar*  
Vijayabhaskar Annamalai  
KALUSIVALINGAM

Date: 12/2/2010

By: *V. J. Loganathan*  
Jaihari LOGANATHAN

Date: 12/2/2010

By: *Ravi Shekhar*  
Ravi SHEKHAR

Date: 12/3/2010

By: *CS*  
Jeelani SYED

Date: 12/2/2010

By: *Quaizar*  
Quaizar VOHRA

459555 VI/RE